

L 45366-66

ACC NR: AP6026461

ions may be disregarded. The authors also consider the determination of the magnetic field dissipation time and show that calculations lead to a decay time longer than that obtained by Schroter in another work [Schroter, E. H., 1964, Reprint from "Convegno sulle Macchie Solari," Firenze] and discuss some possible causes of these discrepancies. The "effective" optical depth corresponding to the observed decay time is estimated for some sunspot models. The discussion of the results without considering the fine structure of the sunspot, shows that the conception of the gasokinetic electrical conductivity in hydrodynamic approximation may not be applicable in the case of sunspots. It is stated in conclusion that the solution of the problem of magnetic field dissipation given in the article is incomplete. The authors are greatly indebted to Dr. V. Bumba for a number of useful discussions. One of the authors (G. V. Kuklin) is grateful to the Czechoslovakia Academy of Sciences and to the staff of the Astronomical Institute for the opportunity to work on this problem. Orig. art. has: 2 figures, 24 formulas, and 8 tables. [GC]

SUB CODE: 20/ SUBM DATE: 28Jul65/ ORIG REF: 002/ SOV REF: 008/
OTH REF: 020/

Card 2/2 *amw*

L 45365-66

ACC NR: AP6026462

SOURCE CODE: CZ/0092/66/017/002/0057/0064
(UP)

16
B

AUTHOR: Bumba, V.; Kopecky, M.; Kuklin, G. V.

ORG: [Bumba, Kopecky, Kuklin] The Astronomical Institute of the Czechoslovak Academy of Sciences, Ondrejov. [Kuklin] the Siberian Institute of Terrestrial Magnetism, Ionosphere, and Radiowave Propagation, Academy of Sciences, Irkutsk, SSSR

TITLE: Some aspects of a theoretical study of sunspots ✓

SOURCE: CSAV. Byul astron inst Chekhoslov, v. 17, no. 2, 1966, 57-64

TOPIC TAGS: sunspot, umbra, penumbra, sunspot magnetic field, photosphere, sunspot velocity field, intergranular space

ABSTRACT: The authors discuss some theoretical aspects of the dynamics of evolution of basic elements in the fine structure of sunspots at various stages of their evolution and organization. They also discuss their relation to the magnetic field structure. The close relation of "pores" to intergranular space is emphasized, and it is shown that sunspots are organized systems of structural and field elements.

Card 1/2

Card 2/2 *card*

KOPECKY, Mir, MUDr.

Chronic ear diseases in adolescents. Cas. lek. cesk. 94 no.47-48:
1318-1323 25 Nov 55.

1. Fakultni poliklinika--pece o dorost.
(ADOLESCENCE, diseases,
ear dis.)
(EAR, diseases,
in adolescents.)

KOPECKY, Miroslav [deceased]

Otitis externa and a new method for its treatment. Cesk.otolar.
10 no.1:27-37 F '61.

1. Fakultni poliklinika - Oddeleni pro vysokoskolaky a krajske
dorostove oddeleni, vedouci lekar MUDr. Miroslav Kopecky.
(OTITIS EXTERNA ther)

KOPECKY, M.

Rehabilitation in hearing disorders. Prakt. lek., Praha 31 no.19:415-
419 5 Oct 1951. (CJML 21:2)

KOPČEK, M.

Evaluation of the competition called Olesova Movement for Higher Yields and Better Quality of Malting Barley, 1958. p. 201.

KRAJSKY PRŮMYSL. (Ministerstvo potravinarskeho prumyslu)
Praha, Czechoslovakia Vol. 5, no. 9, Sept. 1959.

Monthly List of East European accession, (EEA1), LC, Vol. 5, No. 12, Dec. 1959
Uncl.

KOPECKY, M.

Higher yield of malt barley. p. 319.

VESTNIK. (Ceskoslovenska akademie zemedelskych ved.) Praha, Czechoslovakia,
Vol. 6, no. 6, 1959.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, no. 11, Nov. 1959
Uncl.

KOPECKY, Milan, inz.

Research of the use of combined fertilizers in cereal cultivation.
Vest ust zemedel 10 no.5:167-168 '63.

1. Vyzkumny ustav obilnarsky, Kromeriz.

KOPECKY, Milan, inz.

National conference on barley production. Vestnik CSAZV 7 no.8:407-
411 '60. (EEAI 10:3)
(Czechoslovakia--Barley)

SKOPIK, Pavel, inz., dr.; KOPECKY, Milan, inz.

Nutrition of grain in using combined fertilizers. Roat vyroba
9 no.3/4:313-328 Mr-Apr '63.

1. Vyskumny ustav obilnarsky, Kromeriz.

KOPECKY, Miloslav, inz.

Higheay truck for loose flour transportation. Prum
potravin 14 no. 12:631-633 D '63.

1. Zavody na vyrobu vzduchotechnickych zarizeni, n.p.,
Milevsko, Vyzkumny ustav vzduchotechniky, Praha.

KOPECKY, Milan, inz.

Effect of nitrogen nutrition in the initial stages of growth
on the yield and quality of malting barley. Rost vyuka 11
no.2:129-138 F '65.

1. Research Institute of Grain, Kromeriz. Submitted October 31,
1963.

ROPECKY, M.

✓ 9B-14 523.74
 Kopecký, M. (Czechoslovakia Central Astron. Inst., Ondřejov), On breaks in the 11-year cycles of sunspots. *Bulletin of the Astronomical Institutes of Czechoslovakia*, Prague, 2(11/12):176-180, Dec. 31, 1951. 3 figs., 5 refs. **DLG**—The author shows that the sunspot frequency cycle cannot be described by a smooth curve, but is characterized by breaks with sudden changes, which occur during the maximum and one to three years before the maximum. The time between the two breaks is closely correlated to the value of the maximum ($r = -0.96$). *Subject Headings*: 1. Solar activity 11- 1/
 2. Sunspot cycle.—A.A.

KOPCHY, I.

"The Decrease In sunspots Toward The Solar Limb." p. 17.
(Biulleten astronomicheskikh Institutov Chexoslovakii.
Bulletin Of The Astronomical Institutes Of Czechoslovakia.
Vol. 4, No. 3, May 1953, Praha.)

Vol. 3, No. 3.

SO: Monthly List of East European Accessions,/Library of Congress, March 1954, Uncl.

1955, 1.

"Methods For Determining The Number Of Apparent Groups Of Stars And Their Duration."
p. 76. (Biulleten Astronomicheskikh Institutov Czechoslovakii. Bulletin of the
Astronomical Institutes of Czechoslovakia. Vol. 3, No. 3, May 1955, Praha.)

SO: Monthly List of East European Accessions, Vol. 3, No. 3, /Library of Congress, March 1954, Uncl.

Kopecky, M.

Kopecky, M.; Mayer, P.

"Distribution Of Sunspots According To Size And Duration." p. 90
(Biuletén Astronomického Inštitútu Čechoslovenska. Bulletin
Of The Astronomical Institutes Of Czechoslovakia. Vol. 4, No. 4,
July 1953, Praha.)

Vol. 3, No. 3,
SO: Monthly List of East European Accessions,/Library of Congress, March 1954, Uncl.

KOPECKY, M.

"Methods for Determining the Number of Sunspot Groups Formed and Their Duration." p. 125.
(Biulleten Astronomicheskikh Institutov Chekhoslovakii. Bulletin of the Astronomical
Institutes of Czechoslovakia. Vol. 4, no. 6, Dec. 1953. Praha).

SO: Monthly List of ^{East European} ~~Russian~~ ^{Vol. 3, No. 6} Accessions, Library of Congress, June 195⁴₃, Uncl.

KOPECKÝ, M.

"Number of Sunspot Groups Appearing and Disappearing at Various Distances From the Central Meridian." p. 181. (Biulleten Astronomicheskikh Institutov Chekhoslovaki. Bulletin of the Astronomical Institutes of Czechoslovakia. Vol. 4, no. 6, Dec. 1953. Praha).

SO: Monthly List of East European Vol. 3, No. 6 Library of Congress, June 1953⁴, Uncl. Accessions,

KOPECKY, MILOSLAV

✓ 9.2-259

523.74:551.590.21

Kopecký, Miloslav (Astron. Inst., Ondřejov). Charakteristiky geosktivnosti sluneční činnosti. [Terrestrially significant solar activity.] *Meteorologické Zprávy*, Prague 10(2):52-55, 1957. 3 figs., 3 tables, 12 refs., 2 eqs. DWB--Relative sunspot number is a convenient

but not necessarily the most significant criterion of solar-terrestrial effects. Two other possible parameters of long-range solar effects (mean sunspot intensity and total eruptive activity) are discussed and values of their components are tabulated for periods of varying length since 1875. Possible parameters of short-range solar effects are also discussed. *Subject Headings:* 1. Sunspot numbers, 2. Solar-terrestrial relationships. -G T

KOPECKY, M.

"Life span of sunspots." (p.213). RISE HVEZD. (Ceskoslovenska spolecnost astronomicka) Praha. Vol. 34, No. 9/10, Dec. 1953.

SO: East European Accessions List, Vol. 3, No. 8, Aug 1954.

KOPECKY, M.

KOPECKY, M. Periodicity and forecasting of sunspots. p. 108,

Vol. 9, No. 4, 1956.
METEOROLOGICKE ZPRAVY
SCIENCE
Praha, Czechoslovakia

So: East European Accession, Vol. 6, No. 2, Feb. 1957

KOPETSKIY, M.

Activities of the solar department of the Astronomical Institute of
the Czechoslovak Academy of Sciences. Mezhdunar. geofiz. god no. 3:
94-95 '57. (MIRA 11:5)

(Czechoslovakia--Sun--Observations)

KOPECKY, M.

Study of the sun at the Ondrejov observatory during the International Geophysical year. p.22.

Observations and studies made by our astronomers. p.23.

(Casopis Ceskoslovenskych Ustavu Astronomickych, Vol. 7, No. 2, 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 9, Sept. 1957. Uncl.

KOPECKY, M.

Conference on the sun at Tiflis, Abastumani, and Kislovodsk. p.41.
(Casopis Ceskoslovenskych Ustavnu Astronomichkych, Vol. 7, No. 3, 1957, Praha,
Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 9, Sept. 1957. Uncl.

KOPECKY, M.

Characteristics of the geophysical activity caused by sun. p.52.
(Meteorologicke Zpravy, Vol. 10, No. 2, Apr. 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 9, Sept. 1957. Uncl.

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✓ 10.5-255 17-551.521.67:551.590.21
Kopecký, M. *Emise sluneční aktivity. [Emission during solar activity.] Meteorologické Zprávy, Prague, 10(5):132-133, 1957. fig., ref. DWB—The purpose of this note is to provide some quantitative data on the various types of radiation emitted by the active sun. While doing this, the author realizes that the data available lack definite reliability, and in most cases are only speculative. The types of solar emission discussed include ultraviolet radiation, hard and soft X-rays, radio frequency radiation, and various types of corpuscular radiation. Subject Headings: 1. Corpuscular radiation 2. Solar activity 3. Radio frequency radiation 4. Ultraviolet radiation.—G.T.*

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CR

KOPECKY, M.; SVESTKA, Z.; FRITZOVA.

Catalog of the great chromospheric flares and their terrestrial consequences.
In English, p. 97.

PUBLICATIONS. (Cekoslovenska akademie ved. Astronomicky ustav.) Praha,
Czechoslovakia, No. 34/42, 1958.

Monthly List of East European Accessions (EEAI), LC, Vol. 3, no. 11, Nov. 1959
uncl.

KOPETSKIY, M.

Indices of the mean strength of sunspots. TSir.Astron.obser. L'viv.
un. no.34:1-2 '58. (MIRA 13:10)

1. Astronomicheskiy institut Akademii nauk Chekhoslovatskoy Respubliki,
Ondreyov.

(Sunspots)

KOPECKY, M.

Gradual waning of sun spots from the central point to the edge of the surface of the sun. In German. p. 177.

PUBLICATIONS. (Cekoslovenska akademie ved. Astronomicky ustav.) Praha, Czechoslovakia, No. 34/42, 1958.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, no. 11, Nov. 1959
uncl.

KOPECKY, M.

General picture of new groups of sun spots and their average span of life during the period from 1871-1950. In German. p. 387.

PUBLICATIONS. (Cekoslovenska akademie ved. Astronomicky ustav.) Praha, Czechoslovakia, No. 34/42, 1958.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, no. 11, Nov. 1959
uncl.

PHASE I BOOK EXPLOITATION

CZECH/5216

Budil, Ivo, ed.

Do blízkého i vzdáleného vesmíru (Into the Near and Distant Universe)
Prague, Orbis, 1960. 10,000 copies printed.

Authors: Milan Blaha, Doctor of Natural Sciences, Candidate of Physics and Mathematics, Odoj Břichta, Engineer, Jan Bukovský, Professor, D.C.Sc. Václav Bumba, Doctor of Natural Sciences, Candidate of Physics and Mathematics, Zdeněk Cepelka, Candidate of Physics and Mathematics, Josef Dvořák, Doctor of Medicine, Vladimír Guth, Docent, Doctor of Natural Sciences, Corresponding Member of the Slovak Academy of Sciences, Doctor of Physics and Mathematics, Josip Kleczek, Doctor of Natural Sciences, Candidate of Physics and Mathematics, Milošlav Kobacký, Doctor of Natural Sciences, Candidate of Physics and Mathematics, Luboš Perok, Doctor of Natural Sciences, Candidate of Physics and Mathematics, Miroslav Plavec, Doctor of Natural Sciences, Candidate of Physics and Mathematics, Jaroslav Rupprecht, Candidate of Physics and Mathematics, Josef Sadil, Ladislav Šohnal, Candidate of Physics and Mathematics.

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and Mathematics. Zdeněk Jureš, Doctor of Natural Sciences, Candidate of Physics and Mathematics, Boris Vahňáček, Doctor of Natural Sciences and Vladimír Vanysek, Doctor of Natural Sciences, Candidate of Physics and Mathematics. Resp. Ed.: Josef Sadil.

PURPOSE: This book is intended for the general reader interested in astronomy, celestial mechanics, and astrophysics.

COVERAGE: The book presents in popular language and in summary form the most important achievements of science to date in the field of astronomy, celestial mechanics, and astrophysics, and notes the importance of continued progress in these disciplines for space travel to the moon and in our solar system, and ultimately to the nearest stars and galaxies. In the section headed "About the Authors" the degrees and titles, affiliations and scientific contributions of each author are given. The text is accompanied by many diagrams, graphs, and tabular data. There are 37 photographs of various celestial bodies. No personalities

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are mentioned. There are 29 references, all Czech (several translations).

TABLE OF CONTENTS:

THE NEAR UNIVERSE

- I. The Moon - The Nearest Cosmic Body
- Size and density of the moon
- Orbit of the moon around the earth
- Phases of the moon
- The ashen light of the moon
- Does the moon have any kind of an atmosphere?
- Temperature on the surface of the moon
- What does the surface of the moon consist of?
- Beginnings of lunar mineralogy
- Is the moon radioactive?
- Surface of the moon through a telescope
- Origin of the seas and craters of the moon

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S/035/62/000/005/068/098
A055/A101

AUTHOR: Kopecký, M.

TITLE: Development of the Ondřejova observatory

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 5, 1962, 70,
abstract 5A547 ("Ríše hvězda", 1961, 42, no. 2, 25-26, Czech)

TEXT: The Ondřejova observatory is the greatest observatory of Czechoslovakia. Within the period extending from 1961 to 1965, it is planned to install, in the observatory, a 2-m reflecting telescope with a series of additional and accessory devices (power and transformer substations, etc.). The building of a new solar pavilion with three solar installations (spectroheli-scope, spectrograph and spectroheliograph) is being completed. The erection of a building intended for mechanical workshops began in 1961. Buildings will also be erected for the departments of stellar astronomy and interplanetary medium. Several apartment houses will be built. For 1966-1970, is planned the erection of two new towers and of a building for the upper atmosphere department; several new radio telescopes and devices for studying the Sun will be installed. ✓

V. Bronshten

[Abstracter's note: Complete translation]

Card 1/1

OUREDNIK, A.; DAUM, S.; KOPECKY, M.

Respiratory insufficiency and acidosis in patients with emphysema and cor pulmonale treated with cirren. Sborn. lek. 63 no.5/5:166-174 1961.

1. Kardiopulmonalni oddeleni II. interni kliniky fakulty vseobecneho
lekarstvi KU v Praze, prednosta prof. dr. F.Herles Laborator fyziologie
a patofyziologie premeny latek, CSAV, Praha. prednosta doc. dr.O.Poupa.
(RESPIRATORY SYSTEM dis) (ACIDOSIS ther)
(PULMONARY HEART DISEASE ther) (PULMONARY EMPHYSEMA ther)
(ANALEPTICS ther)

LEMEZ, L.; KOPECKY, M.

The number of erythrocyte recirculations in chick embryo and hen with a note on embryonic heart efficiency. *Physiol. Bohemoslov.* 11 no.2:93-100 '62.

1. Department of Anatomy, Charles University; Institute of Physiology, Department of Physiology and Pathophysiology of Metabolism, Czechoslovak Academy of Sciences Prague.

(ERYTHROCYTES physiology) (HEART embryol)
(EMBRYO physiology)

S/269/63/000/001/019/032
A001/A101

AUTHORS: Švestka, Z., Kopecký, M., Blaha, M.

TITLE: Qualitative analysis of 244 spectra of chromospheric flares

PERIODICAL: Referativnyy zhurnal, Astronomiya, no. 1, 1963, 62,
abstract 1.51.415 ("Byul. astron. in-tov Chexhoslovakii",
v. 12, no. 6, 229 - 237, English; Russian summary)

TEXT: The authors present the list of emission lines observed in spectra of 92 flares photographed in Ondrejova from 1958 to 1960. The Ondrejova spectrograph can photograph the spectrum in several selected spectral regions $\lambda\lambda 6503 - 6623$, $5829 - 5949$, $4797 - 4925$, $4277 - 4397$, $3870 - 3990$, $3735 - 3817$ and $3640 - 3716$. 244 spectra of these flares are qualitatively analyzed, in particular spectral characteristics of hydrogen and calcium lines; the dependence of excitation change of the Balmer series on the central intensity and width of the $H\alpha$ line; the "center - edge" variation in excitation of the Balmer series and line widths of $H\alpha$ and $H + K$; the relation between the widths of lines $H\alpha$ and $H + K$; the central reversal of hydrogen and calcium lines; the change in spectral characteristic in dependence on the position of the flare region in the group of sunspots.

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Qualitative analysis of 244 spectra of...

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A001/A101

the V-effect. The analysis of the data obtained enabled the authors to draw the following conclusions: 1) Excitation of the Balmer series increases essentially as soon as even weak signs of H α wings appear. 2) Excitation of the Balmer series grows toward the solar limb, which can be explained only by the contrast increase in approaching the limb of the disk. 3) Flares in which Balmer lines are especially wide and excited, appear at the outer boundary of the sunspot penumbras; the same holds also for the H and K lines. 4) Regions of "moustaches" are characterized by the normal state of Balmer series excitation. 5) Lines of flares are broadened mainly due to turbulent motions with velocities less than 100 km/sec. 6) The correlation between the widths of lines H α and H + K leads to the conclusion that hydrogen lines may broaden as a consequence of both Doppler and Stark effect, Stark broadening occurs considerably more seldom. 7) Central reversal in Balmer lines can be due to three different causes in different flares. 8) The V-effect is probably not caused merely by a difference of heights at which umbrae (lines of metals) and wings of Balmer lines are formed. There are 11 references.

I. Shcherbina-Samoylova

[Abstracter's note: Complete translation]

Card 2/2

S/033/62/039/001/006/013
E032/E514

AUTHOR: Kopetskiy, M. (Kopecký)

TITLE: On the theoretical interpretation of the east-west asymmetry in the solar sunspot production activity

PERIODICAL: *Astronomicheskiy zhurnal*, v.39, no.1, 1962, 58-64

TEXT: The author points out that a number of papers concerned with the east-west asymmetry and the production of sunspots have recently appeared (Ref.1: P. R. Romanchuk, T.P.Kudinova, *Astronom.zh.* 36, 743, 1959; Ref.2: P. R. Romanchuk, *Ibid*, 38, 66, 1961; Ref.3: V. F. Chistyakov, *Byul. Vsesoyuzn. astrono-geodez. ob-va*, 28 (35), 21, 1960). In Refs. 2 and 3 an attempt was made to interpret the asymmetry in terms of theoretical calculations. The present author has discussed this problem in detail in Refs. 4 and 5 (*Byul. Astron.in-tov. Czechoslovakia*, 4, 18, 1953; *Publ. Astron.Inst. Czechoslovak AS*, 28, 1956, respectively). In the present paper he gives a critical review of these theoretical calculations and reported attempts at their comparison with observations. The main thesis is that such comparisons are not justifiable because the theories are inadequate. The principal

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On the theoretical ...

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results are summarised as follows:

1) The development of theoretical calculations of statistical phenomena connected with spot formation on a rotating sun must be based on basic quantities and functions, such as, the development function of the true areas of sunspots or groups, the visibility function, the distribution of groups according to their importance and so on, making full use of the Minnaert diagram. The visibility function must not be confused with the area foreshortening function or the function describing the reduction in the number of sunspots towards the limb since these are different functions and their form need not be the same. ✓

2) The above theories of the east-west asymmetry in the appearance and disappearance of sunspots must be looked upon as qualitative since they contain so many approximations and assumptions that they cannot be compared directly and quantitatively with observations. However, these theories do provide a satisfactory qualitative explanation of the asymmetry.

3) Romanchuk's (Ref.2) conclusion that the planets may have an effect on solar activity cannot be considered as justified since

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A001/A101

AUTHOR: Kopecký, Miloslav

TITLE: Periodicity of the frequency of origination and average intensity of sunspot groups

PERIODICAL: Referativnyy zhurnal, Astronomiya, no. 1, 1963, 64, abstract 1.51.429 ("Rise hvězd", 1962, v. 43, no. 5, 90 - 92, Czech)

TEXT: An investigation of the individual characteristics of the solar activity shows that the number of the new formed groups of sunspots follows the 11-year periodicity and does not have the 80-year periodicity, whereas for the groups of average intensity (expressed by their areas) the regularity is inverse. The "butterfly" diagrams presented with the plotted isolines of the numbers of the formed groups and their average areas for 1877 - 1950 show two more differences in the behavior of both characteristics: 1) the zones of frequency of group origination are concentrated near the lines of the most frequent occurrence of groups, but the zones of largest area of groups have a high scatter; 2) frequency

Card 1/2

KOPECKY, M.

Hypothesis on magnetic gamma-type stars. Biul astr Cz 14
no.3:101-102 '63.

1. Astronomical Institute of the Czechoslovak Academy of Sciences,
Ondrejov.

KOPECKY, M.

On Babcock's derivation of ~~Sporer~~'s law. Biul astr Cz
14 no.6:231-234 '63.

1. Astronomical Institute of the Czechoslovak Academy of
Sciences, Ondrejov.

KOPECKY, M.; LETFUS, V.; BLAHA, M.; SVESTKA, Z.

Qualitative discussion of 244 flare spectra. Pt.4.
Biul astr Cz 14 no.4:146-150 '63.

1. Astronomical Institute of the Czechoslovak Academy
of Sciences, Ondrejov.

KOPECKY, M.

On the question of the reality of an 80-year period of the average importance of sunspot groups. Biul astr Cz 15 no.2:44-48 '64.

1. Astronomical Institute, Czechoslovak Academy of Sciences, Ondrejov.

KOPECKY, M.

A few notes on subphotospheric magnetic tubes. Blul astr
Cz 15 no. 4:125-130 '64.

1. Astronomical Institute, Czechoslovak Academy of
Sciences, Ondřejov.

KOPECKY, M.

Hydromagnetic hypotheses on the 80-year sunspot period. Biul
astr Cz 15 no.5:178-186 '64

1. Astronomical Institute, Czechoslovak Academy of Sciences,
Ondrejov.

KOPECKY, M.; SUDA, J.

Number of sunspot groups formed from 1951 till 1954 and their
average life time. Biul astr Cz 16 no.2:78-80 '65.

1. Astronomical Institute of the Czechoslovak Academy of Sciences,
Ondrejov. Submitted August 26, 1964.

DOPECKY, MIROSLAV

L 41519-65 ARG/EEQ-2/ENG(j)/EWT(d)/FBD/FSS-2/ENG(r)/EWT(1)/FBO/EMP(e)/EWT(c)/
 EWT(m)/FS(v)-3/EPF(c)/EEC(k)-2/ENG(s)-2/ETP(1)/ETP(f)/ENG(v)/EMP(c)/EMP(v)/EWA(1)/
 EPR/EMP(j)/T-2/ENG(a)-2/EMP(h)/EPA(bb)-2/EEC(c)-2/EEQ-2/ENG(c)/FCS(k)/EMP(b)/
 ARH05110 PI-4/PW-4/PK-4/PN-4/BOOK EXPLOITATION PI-4/PH-4/PAC-2/PS-4/PP-4/163
 Po-4/Pe-5/Fq-4/Pac-4/Pr-4 IJP(c) AST/TT/HH/DD/HH/GH/BC/HH 141
 Barvir, Miroslav, (Engineer); Benes, Konrad, (Professor, Doctor); Bouska, Jiri, (Doctor);
 Mudil, Ivo, (Graduate in Philosophy); Cepicka, Zdenek, (Candidate of Physical and Mathematical Sciences);
 Codr, Milan, (Doctor); Dolezal, Vladimir, (Doctor); Dvorak, Antonin, (Candidate of Medical Sciences);
 Dvorak, Josef, (Doctor); Guth, Vladimir, (Candidate of Medical Sciences, Docent, Doctor); Horak, Zdenek,
 (Doctor of Physical and Mathematical Sciences, Corresponding Member of the Czechoslovak Academy of Sciences, Professor, Doctor);
 Hospodar, Jan, (Doctor of Physical and Mathematical Sciences, Doctor); Kleczek, Josip, (Doctor); Klest, Emil,
 (Candidate of Physical and Mathematical Sciences); Kolodovsky, Milan; Kornil, Vladimir (Doctor);
 Kopecky, Miloslav, (Candidate of Legal Sciences); Krivicky, Ladislav, (Candidate of Physical and Mathematical Sciences);
 Kriz, Zdenek, (Candidate of Physical and Mathematical Sciences); Ledvina, Milan, (Engineer); Maleik, Vladimir, (Doctor);
 Moravek, Milan, (Candidate of Medical Sciences); Mrazek, Jaroslav, (Candidate of Medical Sciences, Engineer);
 Mrazek, Jiri, (Candidate of Technical Sciences); Neuzil, Ludek, (Doctor); Novotny, Zdenek, (Candidate of Physical and Mathematical Sciences);
 Novotny, Zdenek, (Doctor); Pernegr, Jaroslav, (Doctor); Pesek, Rudolf, (Professor, Doctor, Engineer);
 Pipal, Miloslav, (Doctor of Technical Sciences, Corresponding member, of the Czechoslovak Academy of Sciences); Flavec, Miroslav, (Doctor);
 Pokorny, Zdenek, (Candidate of Physical and Mathematical Sciences, Docent, Doctor);

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Ruml, Vladimir, (Candidate of Medical Sciences, Doctor); Sadil, Josef, (Doctor of Physiological Sciences); Schnal, Ladislav; Stverak, Jiri, (Doctor); Svastka, Zdenek, (Doctor); Tuma, Jaroslav, (Candidate of Physical and Mathematical Sciences, Doctor); Tydl, Vaclav, (Docent, Engineer); Ulehla, Ivan, (Candidate of Technical Sciences, Professor, Doctor); Valnicek, Boris, (Candidate of Physical and Mathematical Sciences, Doctor); Vanysek, Vladimir, (Candidate of Physical and Mathematical Sciences, Docent, Doctor); Vlasak, Marian, (Candidate of Physical and Mathematical Sciences; Doctor); Voda, Miloslav, (Engineer)

Principles of astronautics (Zaklady kosmonautiky) Prague, Orbis, 1964. 445 p. illus., biblio. 5000 copies printed.

TOPIC TAGS: cosmonautics, rocket, satellite, space flight, missile 13

PURPOSE AND COVERAGE: This publication is a popular scientific reference book for people working in cosmonautics. The book presents a survey of cosmonautics and space flight up to 1 June 1963.

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L 44055-56

ACC NR: AT6020495 SOURCE CODE: CZ/2514/65/000/051/0046/0046

AUTHOR: Kopecky, M.

ORG: Astronomical Institute of the Czechoslovak Academy of Sciences, Observatory Ondrejov

TITLE: Detailed structure of sunspot butterfly diagrams

SOURCE: Ceskoslovenska akademie ved. Astronomicky ustav. Publikace, no. 51, 1965, 3rd Consultation on Solar Physics and Hydromagnetics, Tatranska Lomnica, 13-16 October 1964, 46

TOPIC TAGS: solar activity, sunspot, solar magnetic field, solar cycle, sunspot cycle, ~~butterfly diagram~~

ABSTRACT: The author explains briefly the basic hydromagnetic theories on the periodicity of the solar activity cycle, all of which are based on the classical interpretation of sunspot butterfly diagrams. The structure of these diagrams has

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L 84000-01

ACC NR: AT6020495

2
been recently analyzed in greater detail by numerous authors, but their results differ markedly from the classical interpretation and are frequently contradictory. The author believes that the problem of the true detailed structure of the butterfly diagrams urgently needs to be solved if sunspots are to be investigated statistically because there is no reliable starting point for designing models of the sunspot cycle. The question is discussed in greater detail in the author's works to be published in the materials of the Symposium of Sunspots held in Florence, and of the Symposium on Solar Magnetic field held in Rome during the celebration of the 400th anniversary of Galileo's birth. [GC]

SUB CODE: 03. ~~00~~ / SUBM DATE: none / SOV REF: 002 / OTH REF: 002 /

Card

2/2 *gd*

L 3042-66 EWP(m)/EPF(n)-2/EWA(d)/ETC(m) WW

ACCESSION NR: AP5026467

CZ/0002/65/000/002/0253/0255

AUTHOR: Kopecky, M.

TITLE: 3rd conference on solar physics and hydromagnetics

SOURCE: Ceskoslovenska akademie ved. Vestnik, no. 2, 1965, 253-255

TOPIC TAGS: sun, astrophysics, astronomic conference, hydromagnetics

ABSTRACT: The conference took place on 13-16 October 1964 at Tatranska Lomnica; it was organized by the Solar Department of the Astronomical Institute of the Czechoslovak Academy of Sciences at Ondrejov. 19 Czech, 3 Hungarian, 5 East German, 11 Polish, 1 Rumanian and 1 Russian scientist took part. The papers submitted will appear as Volume 51 of Publikace Astronomického ustavu CSAV (Publications of the Astronomical Institute, Czechoslovak Academy of Sciences).

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: AA

NR REF SOV: 000

OTHER: 000

JPRS

Card 1/1

L 00859-67

ACC NR: AP6030419 SOURCE CODE: CZ/0092/66/017/003/0144/0149

AUTHOR: Kopecky, M. ; Suda, J.

ORG: Astronomical Institute of the Czechoslovak Academy of Sciences, Ondrejov

TITLE: Some notes on the form of polar coronal rays

SOURCE: Ceskoslovenska akademie ved. Byulletén' astronomicheskikh institutov Chekhoslovakii, v. 17, no. 3, 1966, 144-149

TOPIC TAGS: solar corona, polar coronal ray

16B

ABSTRACT: The paper discusses the relationship between the form of polar coronal rays and the over-all form of the solar corona, the dependence of the change in angle α between the coronal ray and the normal to the limb of the solar disc on the distance from this limb and, eventually, the forms of polar coronal rays resulting from this change; The authors wish to thank Mrs. Jana Sudova for her assisting them in measuring the drawing of the system of polar rays and numerically computing by the least square method the parameters K using the relation $\alpha = k(\theta - i)$. Orig. art. has: 9 figures and 10 formulas. [Authors' abstract]

[KS]

SUB CODE: 03, 20/ SUBM DATE: 15Dec65/ SOV REF: 007/ OTH REF: 007/

Card 1/1 hs

KOPECKY, Otakar, Inz.

International Conference on Tests of the Meat of Swine. Vestnik
CSAZV 8 no.7:395-397 '61.

1. Vyzkumny ustav pro chov prasat Ceskoslovenske akademie zemedel-
skych ved, Kostelec nad Orlici.

(Swine)

CZECHOSLOVAKIA/Farm Animals. Swine.

Q-2

Abs Jour: Ref Zhur - Biol., No. 22, 1958, 101155

Author : Kopecky, Otakar

Inst : -

Title : The Results of Experimental Fattenings and
Evaluation of Meat Productivity in Purebred
Swine Progeny.

Orig Pub: Nas chov, 1957, No. 24, 665-667

Abstract: During 1955-1956, experimental fattenings of
657 improved White breed piglets and of 15
Preshtits breed piglets (including half-breeds)
showed the following results (in the order of
breeds): duration of fattening from birth
until 20 kg of weight were reached - 79.1 and
69.7 days; average daily weight gains during
the fattening period starting with 20 kg and

Card 1/2

KOPECKY, O.
KASPAR, F.

Coordination of research work on the fattening, the fattening tests.
and the commercial value of hogs and poultry. p251

Praha, Ceskoslovenska akademie zemedelskych ved. VESTNIK.
Praha, Czechoslovakia. Vol. 6. no. 5, 1959

Monthly list of East European Accessions (EEAI) IC Vol. 9, no. 2
Feb. 1960. Uncl.

KOPECKY, Otakar, inz.

International conference on methods of testing the meatiness of swine.
Vestnik vyzk zemedel 9 no.8:388-391 '62.

1. Vyzkumny ustav po chov prasat, Kostelec nad Orlici.

KOPECKY, Otakar, inz.

Contribution to the study of swine meatiness. Vest ust zemedel
10 no.6/7:225-228 '63.

1. Vyzkumny ustav pro chov prasat, Kostelec nad Orlici.

Strojirenistvi (Machinery)
Vol. 8, Nr. 3, 20, March 1958

Konachy B.: Information service in engineering industries.

Strojirenistvi, Vol. 8, No. 3, 1958, p. 212-216

The article deals with the organization of technical information service in Czechoslovak engineering industries. The scheme has been several times changed before the adequate system has been built up. The author points out many ways in which engineering works can and should profit by exploiting valuable technical information they can obtain from the workers and institutions responsible for the service.

1-2c

KOPECKY, Radim

Practical shaping of hard materials by recess grinding.
Stroj vyr 12 no.9:661-664 S '64.

1. Naradi National Enterprise, Prague.

KOPECKY, R.

Form grinding of hardened steels by the Diaform method. Strojirenstvi
14 no.9:705-710 S '64.

1. Naradi National Enterprise, Prague.

KOPECKY, Radim

Diamond wheels for electrolytic grinding. Stroj vyr 13 no.3;
216 Mr '65.

KOPECKY, S.

Logarithmic intermediate frequency amplifier. p. 166. (SDELOVACI
TECHNIKA, Vol. 5, No. 6, June 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 12, Dec 1957. Uncl.

2

MIEPIL, G.; KOPECKY, S.; ZBOJANOVA, M.

CSSR

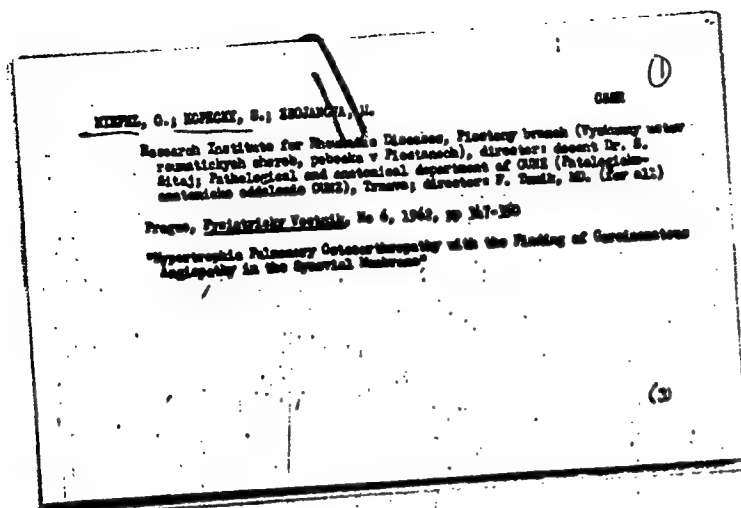
Research Institute for Rheumatic Diseases, Piestany branch (Vyskumny ustav reumatickych chorob, pobočka v Piestanoch), director: docent Dr. S. Sita; Pathological and anatomical department of OUNZ (Patologicko-anatomicke oddelenie OUNZ), Trnava; directors: F. Tomik, MD. (for all)

Prague, Fysiatricky Vestnik, No 6, 1962, pp 347-350

"Hypertrophic Pulmonary Osteoarthropathy with the Finding of Carcinomatous Angiopathy in the Synovial Membrane"

(3)

KOPECKY, S.



TRNAVSKY, K.; KOPECKY, S.

Effect of some antiphlogistic drugs on the inflammatory reaction produced by sodium urate. Fysiat. vestn. 43 no.6:351-355
D ' 65

1. Vyzkumny ustav revmatických chorob v Piestanech (reditel - doc. dr. S. Sitaj) ; Patologickoanatomicke oddeleni Obvodniho ustavu narodniho zdravi v Trnave (vedouci - dr. F. Tomik).

NIEPEL, G.; KOSTKA, D.; KOPECKY, S.

Incidence of enthesopathic changes in the cervical region.
Cesk. radiol. 19 no.1:28-34 Ja '65

1. Výzkumný ústav chorob reumatických v Plástanoch (vedoucí
doc. dr. S. Sitaj).

KOPECKY, V.

Research developments in the design of high-head turbines in Czechoslovakia.
p. 11. (CZECHOSLOVAK HEAVY INDUSTRY, No. 6, 1957, Prague, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, VOL. 6, No. 12, Dec 1957. Uncl.

KOPECKY, V.

Hydraulic turbines. (Supplement) p.1.
(Energetika, Vol. 7, No. 2, Feb. 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 9, Sept. 1957. Uncl.

NEUMANN, Jan; LEDEREROVA, Eva; KOPECKY, Zdenek; SLABY, Jiri; ZERZANOVA, Zdena;
PARIZKOVA, Eva.

Depressive traits in the personality of Julius Zeyer. Cesk. psychiat.
57 no.5:337-342 '61.

1. Psychiatricka' lecebna Horni Berkovice.
(POETRY) (DEPRESSION)

KOPECNA, M.

Use of tetramethylthiuram disulfide for disinfection of granaries. p. 60.

TECHNIKA VYKUPU, MLYNARSTVI A PEKARSTVI. (Ministerstvo potravinarskeho prumyslu a vykupu zemedelskych vyrobku a Sdruzeni mylnu a pekaren)
Praha, Czechoslovakia, Vol. 5, no. 2, Feb. 1959.

Monthly List of East European Accessions (EEAI), LC Vol. 9, no. 2,
Feb. 1960

Uncl.

SOMBOTA, J.; KOPECNA, M.

Study of the water quality in the Labska reservoir. Cesk. hyg.
10 no.2:107-113 Mr '65

1. Krajska hygienicko-epidemiologicka stanice, Hradec Kralove.

CZECHOSLOVAKIA

SOMBOTA, J.; KOPECNA, M.

Authors (MRS S), Hradec Kralove (for both)

Trague, Československa Hygiena, No 2, 1965, pp 107-113

"The Control of Water Quality in the Labska Reservoir."

KOPECNY, J. - Inzenyrske Stavby-Vol. 3, no. 4, Apr. 1955.

Proceedings and resolution of the National Conference of Activists in
Construction Engineering held March 7-8, 1955. p. 133.

Measuring the air content in concrete. p. 140.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 9, Sept. 1955,
Uncl.

KOPECNY, J.

Aggregates used in making concrete during the winter. p. 471.

INZENYRSKE STAVBY. Vol. 4, no. 10, Oct. 1956

Praha, Czechoslovakia

SOURCE: East European List (EEAL) Library of
Congress, Vol. 6, No. 1, January 1957

KOPECNY, J., inz. (Pardubice); STURSA, J., inz. (Pardubice)

A nomograph of determining the exposure time in photographic enlarging. Jena tech opt 6 no.2:52-53 F '61.

CERNOCH, Z.; KREN, V.; KOPECHY, J.; KVASNICKA, J.; SLEZAK, P.; STEINHART, L.;
NAVRATIL, P.

Roentgen findings in hypertensive patients during lumbar
aortography and renovasography. Cesk. radiol. 19 no.4/5:
311-314 Ag '65.

1. Radiologicka klinika, ustav patologicke anatomie, I. interni
a urologicka klinika lekarske fakulty Karlovy University v Hradci
Kralove, CSSR.

STEPANEK, Pavel; MYDLIL, Frantisek, MUDr.; KOPECNY, Jaroslav; BRZEK,
Vladimir

Decortication of the lungs during resection for tuberculosis
and histological examination of the pleura. Sborn. ved. prac.
lek. fak. Karlov. Univ. 9 no.1:147-154 '64.

1. Pleni lecebna v Zamberku Obvodniho ustavu narodniho zdravi
Usti n. Or. (reditel: MUDr. F. Mydlil); Patologicko-anatomicky
ustav (prednosta: prof. MUDr. A. Fingerland, DrSc) a Chirurgicka
klinika (prednosta: prof. MUDr. J. Prochazka, DrSc.) Karlovy
University v Hradci Kralove.

FINGERLAND, Antonin; KOPCHNY, Jaroslav

Lung cancer in women. Sborn. ved. prac. lek. fak. Karlov.
Univ. 6 nos. 1495-499 1965.

1. Patologicko-anatomicky ustav (prednosta: prof. HUBR.
A. Fingerland, DrSc.), Karlovy University v Hradci Kralove.

KOPECNY, Josef; SEVCIK, Miloslav

Diseases in workers handling polyurethane. Prac. lek. 16 no.4:167-168 My '64

1. Klinika nemocí z povolání lékařské fakulty University J.E. Purkyně v Brně (prednosta: doc. dr. J. Vyskočil).

KOPECNY, Josef

Hazards in the work with mercury. Chem prum 15 no.2:114 F '65.

1. Clinic of Occupational Diseases, Brno.

KOPECNY, Josef; AMBROS, Dusan

Toxicity of vinyl fluoride. Chem prum 14 no.8:442-443 Ag '64.

1. Clinic of Occupational Diseases in Brno (for Kopecky). 2.
Research Institute of Macromolecular Chemistry, Brno (for Ambros).

KOPECNY, J., inz.

Calibrated bricks, new trend in rough ceramics. Stavivo
42 no. 3:111 Mr '64.

STANICEK, J.; KOPECNY, J.

Contribution on the treatment of vaginal carcinoma with
Au-198 in metallic form. Neoplasma 10 no.3:283-290 '63.

1. I Geburtshilfliche und Gynekologische Klinik der J. Ev.
Purkyne Universitat in Brno, CSSR.
(VAGINAL NEOPLASMS) (GOLD ISOTOPES)
(NEOPLASM RADIOTHERAPY)

KOPECNY, J., inz.

Influence of the structure of porous concrete on its quality.
Stavivo 42 no.7:269 J1'64

KOPECNY, J., inz.

Polyurethane in the building industry. Stavivo 42 no.9:
352 S '64.

NYKLICEK, O.; KOPECNY, J.

Histological bases of cytology on the day of labor. Cesk.
gynek. 29 no.1:39-40 F*64.

1. Gyn.-por. odd: GYN v Nachode (vedouci: dr. Otakar Nyklicek,
CSC); Patol.-anat. ustav lek. fakulty KU v Hradci Kralove;
(prednost: prof.dr. A. Fingerland, DrSc.)

*

KOPECNY, J.; SONEK, M.

Comparison of functional cytology with colpomicroscopic data.
Cesk. gynek. 29 no.1&12-14 F'64.

I. I.gyn.-por.klin.lek.fak.UJEvP v Brne; prednosta: prof.dr.
L.Havlassek [deceased]; II.gyn.-por.klin.lek.fak.UJEvP v Brne;
(prednosta: doc.dr. M.Uher, CSc.)

*

BORIKOVA, E.; KOPECNY, Jaroslav

Acute myositis probably due to coxsackie infection. Cesk. neur.
20 no.2:81-88 Mar 57.

1. Infekčni oddelení KUMZ v Plzni, prednosta Dr. J. Zdaril, a
Pathologicko-anatomický ústav lékařské fakulty v Plzni, prednosta
doc. Dr. J. Vanek.

(COXSACKIE VIRUSES, infect.

causing myositis, diag. (Cs))

(MYOSITIS, etiol. & pathogen.

coxsackie virus infect. (Cs))

KOPECNY

CZECHOSLOVAKIA/Chemical Technology: Chemical
Products and Their Applications.
Safety and Sanitation.

Abs Jour : Ref Zhur-Khiniya, No 7, 1959, 23865

Author : Chalupa, B., ~~Kopcevy, J.~~, Kvasnicka, O.,
Sevcik, M.

Inst : -

Title : Clinical Investigation of Workmen Employed
in the Manufacture of Silicon Carbide.

Orig Pub : Pravocni lekar., 1958, 10, No 2, 153-156

Abstract : The medical check-up of 36 workers employed
in the manufacture of silicon carbide revealed
changes in the bronchial and upper respi-
ratory tracts. Pneumoconiosis was not pre-
sent. In a group of workmen the signs of

Card

: 1/2

Klinika chorob z povolani v Brne.

Oddeleni hygieny prace H Khes v Brne.

KOPECHY, J.; KORHON, M.

Endocardial fibroelastosis. Cesk. pediat. 13 no.5:432-437 5 June 58.

1. Patologickoanatomicky ustav VIA J. Ev. Purkyne v Kradci Kralove,
prednosta prof. Dr. Ant. Fingerland.

(ENDOCARDIAL FIBROELASTOSIS, in inf. & child
pathol. & case reports (Cz))

KOHOUTEK, Miroslav; VACHA, Karel; FINKOVA, Alena; KOPECNY, Jaroslav;
STOZICKY, Viktor

Placenta cervicalis increta. Sborn. ved. prac. lek. fak. Karlov.
univ. (Hrad Kral) 4 no.5:685-688 '61.

1. Gynekologicko-porodnicka klinika; prednosta prof. DrSc. MUDr.
J. Pazourek Patoloticko-anatomicky ustav; prednosta prof. DrSc.
MUDr. A. Fingerland.

(PLACENTA ACRETA)

KOPECNY, Josef; AMBROS, Dusan

Toxicity of trifluorochloroethylene. Prac. lek. 13 no.8/9:463-466
N '61.

1. Klinika chorob z povolani v Brne, prednosta doc. dr. K. Kadlec
Vyzkumny ustav makromolekularni chemie v Brne.

(POLYETHYLENES toxicol) (OCCUPATIONAL DISEASES)

37343

S/194/62/000/003/009/066
D230/D301

94310

AUTHOR: Kopečný, Josef

TITLE: Power transistor triodes in servomechanisms

PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika,
no. 3, 1962, abstract 3-2-22f (Automatizace, 1961, 4,
no. 6, 166-167)

TEXT: A three-stage a.c. current amplifier is described using Soviet germanium transistors. The first stage working in class A uses transistors П2Б (P2B), the second and third stages utilize transistors П202 (P202) and П4Д (P4D) respectively, in a symmetrical circuit design. The coupling between the stages is by means of transformers, maximum efficiency is obtained due to match. All stages have a common emitter, in each emitter circuit there are resistances producing negative current feedback. Power amplifying stages are pulsed; consequently, the losses in the transistors and in their heating are reduced (the temperature does not exceed 160°C even without the required cooling). The supply voltage is 12.5 V. The opera-

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Power transistor triodes ...

S/194/62/000/003/009/066
D230/D301

tional stability of the servo system, of the transformers (-40 to 60°C) and for the transistor replacements is achieved by introducing a fixed negative feedback to the whole amplifier; the latter is stabilized by means of a tachometer. The amplifier was used for amplification of 400 c/s signal, its output was fed into an asynchronous 4 V servomotor. [Abstracter's note: Complete translation.] X

Card 2/2

KOPECNY, Josef; LUCANSKA, Nadezda; SLPKA, Frantisek; CERNY, Emil; AMBROS,
Dusan

Vinylfluoride toxicity. Prac. lek.16 no.7:310-311 S '64.

1. Klinika nemoci z povolani (prednosta doc. dr. J. Vyskocil),
I patologickoanatomicky ustav (prednosta prof. dr. J. Svejda)
lekarske fakulty University J.E. Purkyne v Brne, Vyzkumny ustav
makromolekularni chemie v Brne, reditel dr. K. Vesely.

KOPECNY, K.

Importance and application of ore microscopy in ore dressing. p.63.
(Rudy, Vol. 5, No. 2, Feb. 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) IC. Vol. 6, No. 9, Sept. 1957. Uncl.

KOPECZEK, Stanislaw, Mgr., ins.

Determination of the state of a vehicle's wear. Tech motor
11 no.12:428-432 D '61.

42979

S/058/62/000/011/057/061
A160/A101

9.7.70
AUTHOR: Kopečný, Stanislav

TITLE: A holder of a semiconductor triode

PERIODICAL: Referativnyy zhurnal, Fizika, no. 11, 1962, 21, abstract 11-4-41ye P
(Czechosl. pat., cl. 21a⁴, 73, 101147, October 15, 1961).

TEXT: The common design of a semiconductor-triode holder in the form of a coaxial junction does not permit to quickly change the semiconductor triode without disassembling the whole device. In connection with this, it is proposed that the semiconductor triode be connected to the line as a parallel detector. The output of the detector is connected with two quarter-wave band sections. Between the sections, a coaxial output of detected signal is included, which is loaded with a capacitive impedance at a quarter-wave distance. The magnitude of this impedance on the operating frequency is smaller than the magnitude of the output-line impedance.

N. S.

[Abstracter's note: Complete translation]

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43032

8/194/62/000/010/071/084

A055/A126

9.1360

AUTHOR: Kopečný, Stanislav

TITLE: Super-high frequency modulator

PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika, no. 10, 1962, 90, abstract 10-7-179zh P. (Czech. pat., cl. 21a⁴, 74, no. 97890, January 15, 1961)

TEXT: The patent concerns a modulator of decimeter and centimeter waves, based on the use of a balanced connection of rectangular waveguides and differing from the well-known modulators in that one branch of the coupler 1 (see Figure) contains a phase-shifter which, with respect to branch 2, has a phase shift of $\pm (2n - 1) \frac{\pi}{2}$ ($n = 0, 1, 2, 3 \dots$) in one direction and of $m \pm m\pi$ ($m = 0, 1, 2, 3 \dots$) in the other direction. To both these branches the modulating frequency is applied from the auxiliary oscillator; it is applied directly to branch 2, and with a phase-shift of $(2p - 1) \frac{\pi}{2}$ ($p = 0, 1, 2, 3 \dots$) to branch 1. The modulated output frequency is picked up from branch 3. At $n = m = p = 1$, branch 3 will deliver the difference frequency.

R.F.

Card 1/2

KOPECZI, Bela, az irodalomtudományok kandidátusa

Tasks of modern philology after the 8th Congress of the Hungarian
Socialist Workers Party. Magyar tud 70 no.4:233-235 Ap '63.

1. Kiadoi Fogazgatóság vezetője.